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☐ 1. Document ID: US 6180082 B1

L7--Entry 1 of 35

-- File: USPT

Jan 30, 2001

US-PAT-NO: 6180082

DOCUMENT-IDENTIFIER: US 6180082 B1

TITLE: Method to enhance tissue accumulation of radiolabeled compounds

DATE-ISSUED: January 30, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Woltering; Eugene A.	Kenner	LA	N/A	N/A
Espanan; Gregory D.	Metairie	LA	N/A	N/A

US-CL-CURRENT: 424/1.69; 424/1.11, 424/1.65, 530/300, 530/311, 530/317

## ABSTRACT:

Administration of a radioisotopic compound by infusion over a period of time greater than two hours, preferably greater than twelve hours, greatly increases the maximum radioactivity that accumulates in the target cell. The efficacy of the administration of the radiolabeled compound can be increased about five times higher than prior bolus injection or short infusion methods. This method enhances the tumor to background ratio by increasing the actual radioligand accumulated inside the target cells. This technique works for any radiolabeled compound whose cellular uptake is limited by a cellular process of either binding to a cellular receptor or to a transport protein. Once the radiolabeled compound is bound and internalized, the ability of an unlabeled compound to compete with the radioligand is markedly decreased. The primary factor governing residence time after internalization is the physical half-life of the radioisotope, not biologic half-life.

57 Claims, 28 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6171577 B1

L7: Entry 2 of 35

File: USPT

Jan 9, 2001

US-PAT-NO: 6171577  
DOCUMENT-IDENTIFIER: US 71577 B1

TITLE: Radiolabeled annexins

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kasina; Sudhakar	Mercer Island	WA	N/A	N/A
Reno; John M.	Brier	WA	N/A	N/A
Fritzberg; Alan R. —	Edmonds —	WA	N/A —	N/A —
Tait; Jonathan	Seattle	WA	N/A	N/A

US-CL-CURRENT: 424/1.69; 424/1.73, 530/350, 534/10, 534/14, 536/1.11, 536/115, 536/55.2

ABSTRACT:

Radiolabeled annexin and modified annexin conjugates useful for imaging vascular thrombi are described. Methods for making and using such radiolabeled annexin conjugates are also provided.

14 Claims, 9 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMC	Draw Desc	Image
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☐ 3. Document ID: US 6096874 A

L7: Entry 3 of 35

File: USPT

Aug 1, 2000

US-PAT-NO: 6096874

DOCUMENT-IDENTIFIER: US 6096874 A

TITLE: High affinity tamoxifen derivatives

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallace; Sidney	Houston	TX	N/A	N/A
Yang; David	Sugar Land	TX	N/A	N/A
Delpassand; E.	Bellaire	TX	N/A	N/A
Cherif; A.	Houston	TX	N/A	N/A
Quadri; S.	Houston	TX	N/A	N/A

US-CL-CURRENT: 534/10; 534/14, 534/15, 534/16, 564/316, 564/319

ABSTRACT:

The synthesis of tamoxifen derivatives, most particularly halo, halo alkyl, hydroxy, and amino tamoxifen derivatives is disclosed. The native tamoxifen molecule includes a substituted chemical group positioned on the aliphatic chain of the tamoxifen molecule. Particular tamoxifen derivatives of the invention include chloro, bromo, iodo, fluoro, amino and DTPA tamoxifen derivatives, and corresponding lower alkyl halogenated forms. The halogenated tamoxifen derivatives possess superior binding affinities for estrogen receptor rich tissues, such as uterine tissue and breast tissue, relative to unsubstituted native tamoxifen. Radiolabeled forms of the tamoxifen derivatives may be used as highly specific imaging agents for estrogen receptor rich tissues. The fluoro and bromo tamoxifen derivatives are particularly useful for imaging estrogen receptors by PET whereas the iodinated tamoxifens are particularly useful in imaging estrogen receptors by SPECT. Rapid and efficient methods of preparing the tamoxifen derivatives having high specific activity ( $>6$  Ci/. $\mu$ .mol) are also disclosed. Aliphatic chain substituted tamoxifen derivatives are shown to possess greater estrogen receptor binding affinity and more potent tumor cell inhibition than tamoxifen or tamoxifen derivatives substituted at other locations on the molecule (i.e., non-aliphatic chain substituted tamoxifen). The tamoxifen derivatives of the present invention may advantageously be used as anti-cancer therapeutic agents to halt estrogen-receptor positive tumors, such as those of breast and uterine tissue. The present invention also provides a hydrophilic DTPA-tamoxifen analogue, and uses thereof in imaging estrogen receptor positive ER+ lesions.

37 Claims, 62 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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4. Document ID: US 6093382 A

L7: Entry 4 of 35

File: USPT

Jul 25, 2000

US-PAT-NO: 6093382  
DOCUMENT-IDENTIFIER: US 6093382 A

TITLE: Metal complexes derivatized with folate for use in diagnostic and therapeutic applications

DATE-ISSUED: July 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wedeking; Paul W.	Pennington	NJ	N/A	N/A
Wager; Ruth E.	Rockville	MD	N/A	N/A
Arunachalam; Thangavel	Plainsboro	NJ	N/A	N/A
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
Linder; Karen E.	Kingston	NJ	N/A	N/A
Ranganathan; Ramachandran S.	Princeton	NJ	N/A	N/A
Nunn; Adrian D.	Lambertville	NJ	N/A	N/A
Raju; Natarajan	Kendall Park	NJ	N/A	N/A
Tweedle; Michael F.	Princeton	NJ	N/A	N/A

US-CL-CURRENT: 424/1.65; 424/1.11, 424/1.69, 424/9.1, 534/10, 534/14

ABSTRACT:

Diagnostic and therapeutic compositions in the form of complexes for enhancing transmembrane transport of a diagnostic or therapeutic agent and methods for their use. The complexes contain the .alpha., .gamma., or bis isomers of folate receptor-binding analogs of folate, a metal chelated by a ligand, and in one embodiment, a chemotherapeutic agent.

36 Claims, 8 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 6090365 A

L7: Entry 5 of 35

File: USPT

Jul 18, 2000

US-PAT-NO: 6090365  
DOCUMENT-IDENTIFIER: US 6090365 A

TITLE: Radioimmunotherapy of lymphoma using anti-CD20 antibodies

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaminski; Mark S.	Ann Arbor	MI	N/A	N/A
Butchko; Gregory M.	Miami Lakes	FL	N/A	N/A
Glenn; Stephan D.	Davie	FL	N/A	N/A
Wahl; Richard L.	Ann Arbor	MI	N/A	N/A

US-CL-CURRENT: 424/1.49; 424/1.53, 424/143.1, 424/144.1, 424/154.1, 530/391.3

ABSTRACT:

Methods for the treatment of lymphoma by administration of a B cell-specific antibody are described. The invention encompasses providing to a patient both unlabeled antibodies and antibodies labeled with a radioisotope. A principal advantage of the method is that tumor responses can be obtained in a radiometric dose range that does not require hematopoietic stem cell replacement as an adjunct therapy.

18 Claims, 9 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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6. Document ID: US 6022521 A

L7: Entry 6 of 35

File: USPT

Feb 8, 2000

US-PAT-NO: 6022521  
DOCUMENT-IDENTIFIER: US 6022521 A

TITLE: Method of establishing the optimal radiation dose for radiopharmaceutical treatment of disease

DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wahl; Richard L.	Ann Arbor	MI	N/A	N/A
Zasadny; Kenneth R.	Wyandote	MI	N/A	N/A

US-CL-CURRENT: 424/1.49; 424/1.11, 604/20

ABSTRACT:

A method for determining the number of millicuries to be administered to a patient as a dose so as to establish a given centigray (cGy) dose to either the patient's lean body or the patient's total body. The method includes the steps of injecting a radioactive tracer into a patient, determining radiation levels in the whole body, calculating a geometric mean based on the radiation levels, determining the percent-injected activity remaining in the body at each time point, plotting the percent-injected activity versus calculated time from infusion on a log-linear graph, determining the effective half live and the rate of clearance from the log-linear graph, cross-indexing the effective half-life value with the patient's body weight, and multiplying the determined amount of therapeutic millicuries per centigray by the amount of desired centigray to be administered.

11 Claims, 12 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 47

7. Document ID: US 6019957 A

L7: Entry 7 of 35

File: USPT

Feb 1, 2000

US-PAT-NO: 6019957

DOCUMENT-IDENTIFIER: US 6019957 A

TITLE: Non-steroidal radiolabeled agonist/antagonist compounds and their use in prostate cancer imaging

DATE-ISSUED: February 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Duane D.	Germantown	TN	N/A	N/A
Kirkovsky; Leonid I.	Memphis	TN	N/A	N/A
Dalton; James T.	Memphis	TN	N/A	N/A
Mukherjee; Arnab	Memphis	TN	N/A	N/A

US-CL-CURRENT: 424/1.65; 424/1.85, 424/1.89, 548/231, 558/413, 558/414, 564/162, 564/170, 564/202

ABSTRACT:

The present invention relates to a radiolabeled non-steroidal compound having the formula: ##STR1## where R.sub.1, R.sub.2, and R.sub.3, are the same or different and are a radioactive or nonradioactive halogen, a nitro, a cyano, a carbamoyl, a hydrogen, a perfluoroalkyl, a haloalkylamido, an isothiocyanate, an azide, a diazocarbonyl, a substituted oxirane, or a .beta.-chloroethylamine;

R.sub.4 is a hydrogen, an alkyl, or is joined to R.sub.5 ;

R.sub.5 is a radioactive or nonradioactive halogen, a hydrogen, a hydroxy, an alkyl, a haloalkyl, an alkoxy, an acyloxy, an amino, an alkylamino, a thio, a thioalkyl, or is joined to R.sub.4 ;

R.sub.6 is a hydrogen, an alkyl, a halogen, or a haloalkyl;

A.sub.1 and A.sub.2 are the same or different, and each is a direct link or an alkylene;

X.sub.1 is a radioactive or nonradioactive halogen, an oxygen, a sulfur, a sulphonyl, a sulphonyl, an amino, an alkylimino, or alkylene;

R.sub.7 is a radioactive or nonradioactive halogen, a hydrogen, an alkoxy, a haloalkoxy, an acyloxy, a haloacyloxy, an aryloxy, a thioalkyl, a thioraryl, an alkylsulphonyl, an arylsulphonyl, an alkylsulphonyl, an arylsulphonyl, an amino, an alkylimino, an alkylamido group, a radioactive or nonradioactive haloalkylamido group, a phenyl optionally substituted with a radioactive or nonradioactive halogen, a nitro group, an alkyl, a radioactive or nonradioactive haloalkyl, a cyano, a hydroxyl, a carboxyl group, an amino, an alkylamino group, a dialkylamino group, a bisalkylamino group, a radioactive or nonradioactive haloalkylamino group, a radioactive or nonradioactive dihaloalkylamino group, a radioactive or nonradioactive bishaloalkylamino group, an acylamido group, a diacylamido group, an alkylacylamido group, a radioactive or nonradioactive haloacylamido group, a radioactive or nonradioactive bis(haloacyl)imido group, or a radioactive or nonradioactive alkylhaloacylamido group.

19 Claims, 3 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 3

☐ 8. Document ID: US 6007817 A

L7: Entry 8 of 35

File: USPT

Dec 28, 1999

US-PAT-NO: 6007817

DOCUMENT-IDENTIFIER: US 6007817 A

TITLE: Vasopermeability enhancing immunoconjugates

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Epstein; Alan L.	La Canada	CA	N/A	N/A
Glovsky; Michael	Los Angeles	CA	N/A	N/A

US-CL-CURRENT: 424/178.1; 424/155.1, 424/174.1, 424/180.1, 424/183.1, 435/69.6, 435/70.21, 530/350, 530/380, 530/382, 530/387.1, 530/388.1, 530/388.8, 530/388.85, 530/391.1, 530/391.3

ABSTRACT:

Conjugates having a clinically useful delivery vehicle linked to a biologically active species which acts to increase vascular permeability and expand blood volume at or in proximity to the tumor site are disclosed. The vehicle-linked species may be, for example, a vasoactive agent, a substance that recruits or amplifies a vasoactive species, a drug, or a pharmaceutical compound. Suitable biological species comprises peptides, lipids, carbohydrates, or their derivatives. Chemical or recombinant DNA methods suitable for linking the species to the vehicles are indicated. A therapy is disclosed which comprises administering the vasoactive conjugate and delivering a diagnostic agent or a therapeutic agent at an optimal time thereafter, when tumor vasculature is maximally affected.

56 Claims, 4 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 6007814 A

L7: Entry 9 of 35

File: USPT

Dec 28, 1999

US-PAT-NO: 6007814  
DOCUMENT-IDENTIFIER: US 6007814 A

TITLE: Therapeutic uses of the hypervariable region of monoclonal antibody M195 and constructs thereof

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Scheinberg; David A.	New York	NY	N/A	N/A

US-CL-CURRENT: 424/130.1, 424/133.1, 424/152.1, 424/153.1, 424/155.1, 424/173.1, 424/178.1, 424/183.1, 530/387.3, 530/387.7, 530/388.2, 530/388.6, 530/388.7, 530/388.8, 530/389.6, 530/389.7, 530/391.3, 530/391.7

ABSTRACT:

Therapeutic agents and methods for treating and diagnosing leukemia are provided. Such agents comprises monoclonal antibody M195, a polypeptide capable of binding to the antigen of M195, or a chimeric antibody such a peptide, conjugated to a cytotoxic agent, e.g. a radioisotope or alone. Methods for delivering genetic information to a targeted cell is also provided.

31 Claims, 47 Drawing figures Exemplary Claim Number: 1,20  
Number of Drawing Sheets: 27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6001329 A

L7: Entry 10 of 35

File: USPT

Dec 14, 1999

US-PAT-NO: 6001329

DOCUMENT-IDENTIFIER: US 6001329 A

TITLE: Radiolabeled fusion toxins for cancer therapy

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Buchsbaum; Donald J.	Birmingham	AL	N/A	N/A
Blazar; Bruce R.	Golden Valley	MN	N/A	N/A
Vallera; Daniel A.	St. Louis Park	MN	N/A	N/A

US-CL-CURRENT: 424/1.41, 424/1.11, 424/1.53, 424/183.1, 424/9.1

ABSTRACT:

The present invention provides the synthesis and purification of a new class of compounds known as radiolabeled fusion toxins (RFT), in which both toxin and radionuclide tags are contained on the same growth factor, for example, murine granulocyte macrophage colony stimulating factor, mGM-CSF, epidermal growth factor, or murine interleukin-4, mIL-4.

11 Claims, 30 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 11. Document ID: 5985240 A

L7: Entry 11 of 35

File: USPT

Nov 16, 1999

US-PAT-NO: 5985240

DOCUMENT-IDENTIFIER: US 5985240 A

TITLE: Peptide radiopharmaceutical applications

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zamora; Paul O.	Guadalajara	N/A	N/A	MX
Rhodes; Buck A.	Albuquerque	NM	N/A	N/A
Marek; Michael J.	Albuquerque	NM	N/A	N/A

US-CL-CURRENT: 424/1.69; 424/1.11, 424/1.65, 530/311

ABSTRACT:

The invention relates to radiotherapy with somatostatin-derived peptides labeled with medically useful metal ions. The invention in particular provides for methods and reagents for labeling somatostatin-derived peptides with perrhenate, in which a solution including somatostatin-derived peptide analogue containing at least one disulfide bond is provided, the solution is reacted with stannous ions and with a radioisotope, wherein the stannous ions are sufficient to substantially reduce the disulfide bonds of the peptide and the radioisotope, and the radiolabeled somatostatin-derived peptide analogue recovered. Also provided are methods for regional administration of radiolabeled somatostatin-derived peptides, methods for enhanced regional retention of radiolabeled somatostatin-derived peptides, methods for treatment of arthritis using radiolabeled somatostatin derived peptides, and methods for stabilizing radiolabeled somatostatin derived peptides.

5 Claims, 9 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMC	Draw Desc	Image
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☐ 12. Document ID: US 5977322 A

L7: Entry 12 of 35

File: USPT

Nov 2, 1999

US-PAT-NO: 5977322  
DOCUMENT-IDENTIFIER: US 5977322 A

TITLE: High affinity human antibodies to tumor antigens

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Marks; James D.	Kensington	CA	N/A	N/A
Schier; Robert	San Francisco	CA	N/A	N/A

US-CL-CURRENT: 530/388.85; 530/387.3, 530/387.7, 530/388.15, 530/388.22, 530/388.8

ABSTRACT:

This invention provides novel human antibodies that specifically bind to human c-erbB-2. In one embodiment, the antibodies are single chain antibodies initially developed by phage display against a c-erbB-2 target. The resulting antibodies (designated C6 antibodies) show improved specificity and affinity for c-erbB-2. In addition, since the C6 antibodies are both relatively small and fully human they are less immunogenic in humans than other (e.g., full-size or chimeric) anti-c-erbB-2 antibodies. The C6 antibodies may be used alone or as components of chimeric molecules that specifically target and deliver effector molecules to cells overexpressing c-erbB-2.

40 Claims, 7 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 13. Document ID: US 5969144 A

L7: Entry 13 of 35

File: USPT

Oct 19, 1999

US-PAT-NO: 5969144  
DOCUMENT-IDENTIFIER: US 5969144 A

TITLE: Radiolabeled pyridyl-7-azabicyclo[2,2,1]heptanes

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
London; Edythe D.	Baltimore	MD	N/A	N/A
Kimes; Alane S.	Perry Hall	MD	N/A	N/A
Horti; Andrew	Columbia	MD	N/A	N/A
Dannals; Robert F.	Sparks	MD	N/A	N/A
Kassiou; Michael	Marrickville	N/A	N/A	AUX

US-CL-CURRENT: 546/276.7

ABSTRACT:

The present invention is directed to radiolabeled epibatidine analogues, specifically FPH labeled with radioisotopes of fluorine and/or carbon. These radiolabeled epibatidine compounds are used to noninvasively image and quantify nicotinic cholinergic receptors in the living brain for both research studies and the diagnosis of neurodegenerative diseases.

13 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 14. Document ID: US 5811073 A

L7: Entry 14 of 35

File: USPT

Sep 22, 1998

US-PAT-NO: 5811073

DOCUMENT-IDENTIFIER: US 5811073 A

TITLE: Method for radioisotopic detection and localization of inflammation in a host

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kassis; Amin I.	Chestnut Hill	MA	N/A	N/A
Adelstein; S. James	Waban	MA	N/A	N/A

US-CL-CURRENT: 424/1.73; 424/1.81, 424/1.85

ABSTRACT:

A method for detecting and localizing the lesions of bacterial and sterile inflammations in a host is disclosed. The method permits in vivo detection and localization of inflammation within 1 to 2 hours of the administration of a radiopharmaceutical agent to the host according to the method of the invention. The radiopharmaceutical agents for use in the method are nucleosides and nucleotides labeled with a radioisotope. The radioisotopes for use in the radiopharmaceutical agents are gamma emitters (preferably halogen gamma emitters) and positron emitters. The radiopharmaceutical agents are administered by parenteral routes, preferably in a pharmaceutically acceptable carrier.

38 Claims, 16 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5808091 A

L7: Entry 15 of 35

File: USPT

Sep 15, 1998

US-PAT-NO: 5808091  
DOCUMENT-IDENTIFIER: US 5808091 A

TITLE: Rhenium and technetium complexes containing a hypoxia localizing moiety

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Linder; Karen	Kingston	NJ	N/A	N/A
Nunn; Adrian D.	Ringoes	NJ	N/A	N/A
Nowotnik; David P.	Flemington	NJ	N/A	N/A
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
DiRocco; Richard J.	Allentown	NJ	N/A	N/A
Rumsey; William L.	Wyndmoor	PA	N/A	N/A
Pirro; John P.	Mahwah	NJ	N/A	N/A

US-CL-CURRENT: 548/341.1; 534/10, 534/14, 564/253, 564/268

ABSTRACT:

Novel methods, processes and metal complexes attached to a hypoxia-localizing moiety comprising

a metal, preferably radionuclide of rhenium or technetium;

a hypoxia-localizing moiety; and,

a complexing ligand, wherein said ligand and said radionuclide combined have cell membrane permeabilities greater than that of sucrose, are disclosed.

19 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5792444 A

L7: Entry 16 of 35

File: USPT

Aug 11, 1998

US-PAT-NO: 5792444  
DOCUMENT-IDENTIFIER: US 5792444 A

TITLE: Labeled chemotactic peptides to image focal sites of infection or inflammation

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischman; Alan J.	Boston	MA	N/A	N/A
Solomon; Howard F.	New Hope	PA	N/A	N/A
Derian; Claudia K.	Harboro	PA	N/A	N/A
Bridger; Gary J.	Bryn Mawr	PA	N/A	N/A
Higgins, III; John D.	West Chester	PA	N/A	N/A
Larsen; Scott K.	West Chester	PA	N/A	N/A
Hernandez; Pedro E.	Malvern	PA	N/A	N/A
Rubin; Robert H.	Brookline	MA	N/A	N/A
Strauss; H. William	Skillman	NJ	N/A	N/A
Fucello; Anthony J.	Princeton	NJ	N/A	N/A
Kroon; Daniel J.	Flemington	NJ	N/A	N/A

US-CL-CURRENT: 424/1.69; 424/9.34, 424/9.341, 514/17, 514/18, 514/6, 530/330, 530/331

ABSTRACT:

The invention relates to a method of detecting a site of infection or inflammation, and a method for treating such infection or inflammation, in an individual by administering to the individual a diagnostically or therapeutically effective amount of detectably labeled, therapeutic, or therapeutically-conjugated, chemotactic peptide that accumulates substantially at the infected or inflamed site, said chemotactic peptide having the general structure

X--Y--Leu--Phe--[Z].sub.n --W

wherein:

X is an amino protecting group,

Y is an amino acid residue,

Z is a spacer sequence,

n is 0 or 1, and

W is a labeling or attachment substituent.

73 Claims, 27 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5741912 A

L7: Entry 17 of 35

File: USPT

Apr 21, 1998

US-PAT-NO: 5741912  
DOCUMENT-IDENTIFIER: US 5741912 A

TITLE: Methods for preparing heteroatom-bearing ligands and metal complexes thereof

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
Raju; Natarajan	Kendall Park	NJ	N/A	N/A

US-CL-CURRENT: 548/341.1; 524/107, 524/99, 534/10, 534/14, 544/224, 544/336, 544/63,  
544/98, 546/184, 548/100, 548/518, 564/253, 564/268

ABSTRACT:

Novel compounds containing a heteroatom-bearing bridge and novel complexes of these compounds with metals. The novel compounds and complexes are useful in diagnostic and therapeutic methods.

6 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 18. Document ID: US 5726189 A

L7: Entry 18 of 35

File: USPT

Mar 10, 1998

US-PAT-NO: 5726189

DOCUMENT-IDENTIFIER: US 5726189 A

TITLE: Method for imaging nicotinic acetylcholinergic receptors in the brain using radiolabeled pyridyl-7-azabicyclo [2.2.1]heptanes

DATE-ISSUED: March 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
London; Edythe D.	Baltimore	MD	N/A	N/A
Kimes; Alane S.	Perry Hall	MD	N/A	N/A
Horti; Andrew	Columbia	MD	N/A	N/A
Dannals; Robert F.	Sparks	MD	N/A	N/A
Kassiou; Michael	Marrickville	N/A	N/A	AUX

US-CL-CURRENT: 514/339; 546/276.7

ABSTRACT:

The present invention is directed to radiolabeled epibatidine analogues, specifically FPH labeled with radioisotopes of fluorine and/or carbon. These radiolabeled epibatidine compounds are used to noninvasively image and quantify nicotinic cholinergic receptors in the living brain for both research studies and the diagnosis of neurodegenerative diseases.

22 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 19. Document ID: US 5688487 A

US-PAT-NO: 5688487

DOCUMENT-IDENTIFIER: US 5688487 A

TITLE: Diagnostic imaging methods using rhenium and technetium complexes containing a hypoxia-localizing moiety

DATE-ISSUED: November 18, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Linder; Karen	Kingston	NJ	N/A	N/A
Nunn; Adrian D.	Ringoes	NJ	N/A	N/A
Nowotnik; David P.	Flemington	NJ	N/A	N/A
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
DiRocco; Richard J.	Allentown	NJ	N/A	N/A
Rumsey; William L.	Wyndmoor	PA	N/A	N/A
Pirro; John P.	Mahwah	NJ	N/A	N/A

US-CL-CURRENT: 424/1.65; 548/327.5

## ABSTRACT:

Novel methods, processes and metal complexes attached to a hypoxia-localizing moiety comprising

a metal, preferably radionuclide of rhenium or technetium;

a hypoxia-localizing moiety; and,

a complexing ligand, wherein said ligand and said radionuclide combined have cell membrane permeabilities greater than that of sucrose, are disclosed.

8 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw Desc	Image
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☐ 20. Document ID: US 5684889 A

US-PAT-NO: 5684889  
DOCUMENT-IDENTIFIER: US 5684889 A

TITLE: Parametric image representation of imaging agent kinetics

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Qin-Sheng	New York	NY	N/A	N/A
Sgouros; George	New York	NY	N/A	N/A

US-CL-CURRENT: 382/128; 382/274

ABSTRACT:

A method of imaging a characteristic of image intensity of an imaging agent in a subject consists of introducing the imaging agent into the subject and repetitively scanning the subject at each of a plurality of time intervals, so as to produce a plurality of time-sequenced images throughout the subject. Each of the time-sequenced images is then subdivided into a notional array of image elements such that there is a one-to-one correspondence between positions of image elements in the array and locations in the subject. Thereafter, a value of image intensity of the imaging agent at the corresponding location in the subject is determined for each image element in each of the time-sequenced images, the image elements in the arrays of successive time-sequenced images being in register with each other with respect to the locations. The determined image intensity values of image elements of plural time-sequenced images, in register with each other, are then combined to generate an image of the characteristic of image intensity of the imaging agent.

20 Claims, 15 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 21. Document ID: US 5665329 A

L7: Entry 21 of 35 - -

File: USPT-

Sep 9, 1997

US-PAT-NO: 5665329

DOCUMENT-IDENTIFIER: US 5665329 A

TITLE: Heteroatom-bearing ligands and metal complexes thereof

DATE-ISSUED: September 9, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
Raju; Natarajan	Kendall Park	NJ	N/A	N/A

US-CL-CURRENT: 424/1.65; 424/9.36, 534/10, 534/15, 548/341.1, 556/32, 556/37, 564/253, 564/268

## ABSTRACT:

Novel compounds containing a heteroatom-bearing bridge and novel complexes of these compounds with metals. The novel compounds and complexes are useful in diagnostic and therapeutic methods.

7 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 22. Document ID: US 5656254 A

L7: Entry 22 of 35

File: USPT

Aug 12, 1997

US-PAT-NO: 5656254

DOCUMENT-IDENTIFIER: US 5656254 A

TITLE: Polyaza heteroatom-bearing ligands and metal complexes thereof for imaging or radiotherapy

DATE-ISSUED: August 12, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
Raju; Natarajan	Kendall Park	NJ	N/A	N/A

US-CL-CURRENT: 424/1.65; 424/1.69, 424/9.36, 534/10, 534/15, 546/256, 548/341.1, 548/518, 564/253, 564/268

## ABSTRACT:

Novel compounds containing a heteroatom-bearing bridge and novel complexes of these compounds with metals. The novel compounds and complexes are useful in diagnostic and therapeutic methods.

16 Claims, 0 Drawing figures Exemplary Claim Number: 1

☐ 23. Document ID: US 5635603 A

L7: Entry 23 of 35.

File: USPT

Jun 3, 1997

US-PAT-NO: 5635603

DOCUMENT-IDENTIFIER: US 5635603 A

TITLE: Preparation and use of immunoconjugates

DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Hans J.	Mystic Island	NJ	N/A	N/A
Leung; Shui-on	Madison	NJ	N/A	N/A
Shevitz; Jerry	Livingston	NJ	N/A	N/A
Griffiths; Gary L.	Morristown	NJ	N/A	N/A
Govindan; Seregulam V.	Summit	NJ	N/A	N/A

US-CL-CURRENT: 530/391.5; 424/172.1, 435/69.6

ABSTRACT:

The present invention relates to immunoconjugates comprising an antibody fragment which is covalently bound to a diagnostic or therapeutic principle through a carbohydrate moiety in the light chain variable region of the antibody fragment. The invention also relates to immunoconjugates comprising an antibody moiety that is an intact antibody containing a glycosylation site in the light chain variable domain which has been introduced into the antibody by mutating the nucleotide sequence encoding the light chain. The resultant immunoconjugates retain the immunoreactivity of the antibody fragment or intact antibody, and target the diagnostic or therapeutic principle to a target tissue where the diagnostic or therapeutic effect is realized. Thus, the invention contemplates the use of such immunoconjugates for diagnosis and immunotherapy. The invention further relates to methods for preparing such immunoconjugates.

12 Claims, 0 Drawing figures Exemplary Claim Number: 1

☐ 24. Document ID: US 5627286 A

L7: Entry 24 of 35

File: USPT

May 6, 1997

US-PAT-NO: 5627286  
DOCUMENT-IDENTIFIER: US 5627286 A

TITLE: Heteroatom-bearing ligands and metal complexes thereof

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
Raju; Natarajan	Kendall Park	NJ	N/A	N/A

US-CL-CURRENT: 548/341.1; 524/107, 524/99, 534/10, 534/14, 544/224, 544/336, 544/63, 544/98, 546/184, 548/100, 548/518, 564/253, 564/268

ABSTRACT:

Novel compounds containing a heteroatom-bearing bridge and novel complexes of these compounds with metals. The novel compounds and complexes are useful in diagnostic and therapeutic methods.

12 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 25. Document ID: US 5622836 A

L7: Entry 25 of 35

File: USPT

Apr 22, 1997

US-PAT-NO: 5622836

DOCUMENT-IDENTIFIER: US 5622836 A

TITLE: Monoclonal antibodies which recognize malignant cells from bladder carcinomas

DATE-ISSUED: April 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Karen Z.	Coogee	N/A	N/A	AUX
Russell; Pamela J.	Wahroonga	N/A	N/A	AUX

US-CL-CURRENT: 435/344; 435/328, 435/344.1, 435/70.2, 435/70.21, 530/387.3, 530/388.8, 530/388.85, 530/391.3

ABSTRACT:

The present invention relates to a family of novel antigens associated with malignant cells of bladder carcinomas, and to antibodies, portions or fragments thereof, or single domain antibodies which recognize those antigens. The invention provides methods of detecting bladder carcinomas using those antibodies, fragments or portions thereof, or single domain antibodies, to kits for use in those methods and to methods of treating bladder carcinoma using the antibodies, fragments or portions thereof, or single domain antibodies.

26 Claims, 30 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 26. Document ID: US 5608110 A

L7: Entry 26 of 35

File: USPT

Mar 4, 1997

US-PAT-NO: 5608110  
DOCUMENT-IDENTIFIER: US 08110 A

TITLE: Heteroatom-bearing ligands and metal complexes thereof

DATE-ISSUED: March 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramalingam; Kondareddiar	Dayton	NJ	N/A	N/A
Raju; Natarajan	Kendall Park	NJ	N/A	N/A

US-CL-CURRENT: 564/253; 524/107, 524/99, 534/10, 534/14, 544/224, 544/336, 544/63, 544/98, 546/184, 548/341.1, 564/268

ABSTRACT:

Novel compounds containing a heteroatom-bearing bridge and novel complexes of these compounds with metals. The novel compounds and complexes are useful in diagnostic and therapeutic methods.

6 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 27. Document ID: US 5443953 A

L7: Entry 27 of 35

File: USPT

Aug 22, 1995

US-PAT-NO: 5443953

DOCUMENT-IDENTIFIER: US 5443953 A

TITLE: Preparation and use of immunoconjugates

DATE-ISSUED: August 22, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Hans J.	Mystic Island	NJ	N/A	N/A
Leung; Shui-on	Madison	NJ	N/A	N/A
Shevitz; Jerry	Livingston	NJ	N/A	N/A

US-CL-CURRENT: 424/1.49; 424/1.53, 424/178.1, 424/179.1, 424/180.1, 424/181.1, 424/182.1, 424/183.1, 424/9.341, 435/69.6, 435/7.1, 435/7.2, 435/7.23, 530/387.3, 530/391.3, 530/391.5, 530/391.7, 530/391.9

ABSTRACT:

The present invention relates to immunoconjugates comprising an antibody fragment which is covalently bound to a diagnostic or therapeutic principle through a carbohydrate moiety in the light chain variable region of the antibody fragment. The invention also relates to immunoconjugates comprising an antibody moiety that is an intact antibody containing a glycosylation site in the light chain variable domain which has been introduced into the antibody by mutating the nucleotide sequence encoding the light chain. The resultant immunoconjugates retain the immunoreactivity of the antibody fragment or intact antibody, and target the diagnostic or therapeutic principle to a target tissue where the diagnostic or therapeutic effect is realized. Thus, the invention contemplates the use of such immunoconjugates for diagnosis and immunotherapy. The invention further relates to methods for preparing such immunoconjugates.

17 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 28. Document ID: US 5380646 A

L7: Entry 28 of 35

File: USPT

Jan 10, 1995

US-PAT-NO: 5380646

DOCUMENT-IDENTIFIER: US 5380646 A

TITLE: Thrombus detection using radiolabelled disintegrins

DATE-ISSUED: January 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knight; Linda C.	Moorestown	NJ	N/A	N/A
Maurer; Alan H.	Wynnewood	PA	N/A	N/A

US-CL-CURRENT: 424/1.69; 514/12

ABSTRACT:

Radiolabelled polypeptides derived from the Viperidae disintegrins are provided as well as a method for the detection of venous and arterial thrombi, pulmonary emboli and tumors or abscesses that have a thrombus component. Compositions suitable for parenteral administration comprising the radiolabelled polypeptides and a pharmaceutically acceptable carrier are also provided.

27 Claims, 2 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 29. Document ID: US 5332567 A

L7: Entry 29 of 35

File: USPT

Jul 26, 1994

US-PAT-NO: 5332567

DOCUMENT-IDENTIFIER: US 5332567 A

TITLE: Detection and treatment of infections with immunoconjugates

DATE-ISSUED: July 26, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goldenberg; M. David	Short Hills	NJ	N/A	N/A

US-CL-CURRENT: 424/1.49; 424/1.53, 424/136.1, 424/159.1, 424/164.1, 424/178.1, 424/9.341

ABSTRACT:

A method of targeting a diagnostic or therapeutic agent to a focus of infection comprises injecting a patient infected with a pathogen parenterally with an antibody conjugate which specifically binds to an accessible epitope of the pathogen or of a pathogen-associated antigen accreted at the focus of infection, the antibody conjugate further comprising a bound diagnostic or therapeutic agent for detecting, imaging or treating the infection. Polyspecific composite conjugates enhance the efficacy of the method, which is especially useful for treating infections that are refractory towards systemic chemotherapy.

29 Claims, 0 Drawing figures Exemplary Claim Number: 20

☐ 30. Document ID: US 5196515 A

L7: Entry 30 of 35

File: USPT

Mar 23, 1993

US-PAT-NO: 5196515

DOCUMENT-IDENTIFIER: US 5196515 A

TITLE: Thiolactone bifunctional chelating agents for diagnostic and therapeutic products

DATE-ISSUED: March 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lever; Susan Z.	Baltimore	MD	N/A	N/A
Baidoo; Kwamena E.	Baltimore	MD	N/A	N/A
Kramer; Alfred V.	Upper Providence	PA	N/A	N/A
Burns; Hugh D.	Harleysville	PA	N/A	N/A

US-CL-CURRENT: 530/363; 424/153, 424/179.1, 530/382, 530/388.7, 530/388.8, 530/388.85, 530/389.1, 530/389.3, 530/391.5, 540/544

ABSTRACT:

A bifunctional ligand to compositions produced by reaction of the ligand with compounds containing an amino, thiolate or alcholate group, especially proteins, to chelates produced by complexing ligands with metal such as technetium and rhenium and to diagnostic and therapeutic uses of the complexes.

9 Claims, 6 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

☐ 31. Document ID: US 5158760 A

L7: Entry 31 of 35

File: USPT

Oct 27, 1992

US-PAT-NO: 5158760  
DOCUMENT-IDENTIFIER: US 58760 A

TITLE: .sup.99m Tc labeled liposomes

DATE-ISSUED: October 27, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phillips; William T.	San Antonio	TX	N/A	N/A
Klipper; Robert W.	San Antonio	TX	N/A	N/A
Timmons; James H.	Tacoma	WA	N/A	N/A
Rudolph; Alan S.	Bowie	MD	N/A	N/A

US-CL-CURRENT: 424/1.21; 206/569, 424/450, 436/829, 534/14

ABSTRACT:

The invention relates to a .sup.99m Tc-labeled liposome encapsulated protein and to a highly efficient method of radiolabeling liposome encapsulated protein. In particular, a .sup.99m Tc carrier is used to label preformed liposome-encapsulated hemoglobin. The liposome-encapsulated .sup.99m Tc labeled hemoglobin is highly stable in vitro and in vivo and is suitable for a variety of clinical uses, including biodistribution imaging studies. The invention also relates to a method of using technetium-.sup.99m labeled liposome encapsulated hemoglobin to label neutrophils. A kit method which could be used for the convenient preparation of .sup.99m Tc-labeled liposome encapsulated hemoglobin for clinical use is also disclosed.

15 Claims, 10 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 32. Document ID: US 5143713 A

L7: Entry 32 of 35

File: USPT

Sep 1, 1992

US-PAT-NO: 5143713  
DOCUMENT-IDENTIFIER: US 5143713 A

TITLE: .sup.99m Tc labeled liposomes

DATE-ISSUED: September 1, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phillips; William T.	San Antonio	TX	N/A	N/A
Klipper; Robert W.	San Antonio	TX	N/A	N/A
Timmons; James H.	Tacoma	WA	N/A	N/A
Rudolph; Alan S.	Bowie	MD	N/A	N/A

US-CL-CURRENT: 424/1.21; 206/569, 424/450, 428/402.2, 435/7.24, 534/10, 534/14

ABSTRACT:

The invention relates to the efficient preparation of radionuclide labeled liposomes and radionuclide-labeled liposome-encapsulated protein. In particular, a .sup.99m Tc carrier is used to label preformed liposomes or liposome-encapsulated hemoglobin. .sup.99m Tc-labeled liposomes and liposome-encapsulated .sup.99m Tc labeled hemoglobin are highly stable in vitro and in vivo and are suitable for a variety of clinical uses, including biodistribution imaging studies. The invention also relates to a method of labeling neutrophils using .sup.99m technetium-labeled liposomes or liposome-encapsulated hemoglobin. A kit method useful for the convenient preparation of .sup.99m Tc-labeled liposomes or liposome-encapsulated hemoglobin for clinical use is also disclosed.

31 Claims, 12 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 33. Document ID: US 5095111 A

L7: Entry 33 of 35

File: USPT

Mar 10, 1992

US-PAT-NO: 5095111  
DOCUMENT-IDENTIFIER: US 5095111 A

TITLE: Thiolactone bifunctional chelating agents for diagnostic and therapeutic products

DATE-ISSUED: March 10, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lever; Susan Z.	Baltimore	MD	N/A	N/A
Baidoo; Kwamena E.	Baltimore	MD	N/A	N/A
Kramer; Alfred V.	Upper Providence	PA	N/A	N/A
Burns; Hugh D.	Harleysville	PA	N/A	N/A

US-CL-CURRENT: 540/544; 534/14, 544/54, 544/58.2, 548/186

ABSTRACT:

A bifunctional ligand to compositions produced by reaction of those ligand with compounds containing an amino, thiolate or alcholate group, especially proteins, to chelates produced by complexing ligand with metals such as technetium and rhenium and to diagnostic and therapeutic uses of said complexes.

3 Claims, 5 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 4



Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 34. Document ID: US 4732864 A

L7: Entry 34 of 35

File: USPT

Mar 22, 1988

US-PAT-NO: 4732864

DOCUMENT-IDENTIFIER: US 4732864 A

TITLE: Trace-labeled conjugates of metallothionein and target-seeking biologically active molecules

DATE-ISSUED: March 22, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tolman, Glen L.	Chelmsford	MA	N/A	N/A

US-CL-CURRENT: 424/1.45; 424/1.53, 424/1.69, 424/154.1, 424/155.1, 424/178.1, 424/9.34, 436/173, 436/547, 436/548, 436/804, 530/324, 530/345, 530/388.8, 530/391.3, 530/400, 530/402, 930/10, 930/22

ABSTRACT:

Conjugates of target-seeking biologically active molecules and metallothionein in which all or part of the metal in the metallothionein is suitable for diagnostic or therapeutic applications.

44 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 35. Document ID: US 4620971 A

L7: Entry 35 of 35

File: USPT

Nov 4, 1986

US-PAT-NO: 4620971

DOCUMENT-IDENTIFIER: US 4620971 A

TITLE: Indium-bleomycin complex

DATE-ISSUED: November 4, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hou, De-Yan	Bethesda	MD	N/A	N/A

US-CL-CURRENT: 424/1.49; 534/10, 930/DIG.500

ABSTRACT:

A new .sup.111 In-BLM complex designated .sup.111 In-BLMC is described. The complex is characterized by a lack of capacity for binding to serum transferrin, a high selective affinity for viable tumor tissue, in vivo stability, improved activity ratios of tumor to tissues over known .sup.111 In-BLM complexes, tumor imaging flexibility and distinctness, and rapid clearance from the body. The new .sup.111 In-BLM Complex thus has clinical use as a radiopharmaceutical for combining radiotherapy and chemotherapy, and as a tumor-imaging agent for diagnosis.

23 Claims, 14 Drawing figures Exemplary Claim Number: 8

Number of Drawing Sheets: 11

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